Technical Specifications R- $\Xi VO\,\text{sm}_{\Lambda}\text{rt}^{\,\text{s}}$

PARAMETERS	SPECIFICATION
Manufacturer	OPTIKON 2000 S.p.A.
	via del Casale di Settebagni, 13 - 00138 Rome - Italy
	R-Evo smart® S
	111010 02/42/EEC Madical Davida Directive (MDD)
Q	93/42/EEC Medical Device Directive (MDD)
	EN60601-1; EN60601-1-2; EN60601-2-2; EN80601-2-58
ENVIRONMENTAL SPECIFICATIONS	
Storage and transport	temperature -10°C - +70°C, humidity 10% -100% (non-condensing), atmospheric pressure 500 - 1060 hPa
Operation	temperature range +10°C - +35°C, humidity 30%-75%, atmospheric pressure 900 - 1060 hPa (for maximum vacuum);
	810 - 1060 hPa (for vacuum up to 500 mmHg)
ELECTRICAL SPECIFICATIONS	
Input voltage	100-240 VAC
Frequency	50/60 Hz
Required power	200 VA
	100-240 Volt: T3.15AH 250V
COMPRESSED AIR SPECIFICATIONS	
	500 - 800 kPa (72 - 116 PSI; 5 - 8 bar)
	32 Normal litre/min
IRRIGATION	
Fluid delivery	gravity fed (determined by the height of irrigation source) or microprocessor-controlled active infusion
Valvas	solenoid driven pinch valve
	system pedal
ASPIRATION	System peda
Aspiration pump types	peristaltic and Venturi
	(Venturi pump) pressurized air coming from an external source at
	500 - 800 kPa (72 - 116 PSI; 5 - 8 bar)
Default vacuum level	
Available vacuum range	-
	userprogrammable
Ũ	1 - 65 cc/min (peristaltic only)
Vacuum rise time	adjustable on 25 levels (0.5s-12s peristaltic only) adjustable on 2 levels (fast/slow - Venturi only)
Linear aspiration mode	linear aspiration control, through system pedal, (for vacuum and/or flow) from zero to maximum user programmable
Safety device	vacuum sensor, measures the vacuum in the aspiration line
Control	system pedal
ANTERIOR VITRECTOMY	
	pneumatically powered guillotine cutter
8	reciprocating motion
	userprogrammable
Available cutting rate	60 - 5,000 cuts/min 120 - 10,000 cuts/min with Twedge™ technology
Actuating modium	pressurized air from an external source
0	linear cutting rate from 0 to preset controlled via system pedal
0	system pedal
DIATHERMY	systempedal
	bipolar generator - the generator stops when the RF power supply is not
Operating frequency	needed 2 MHz
	9 W (200 Ohm load)
No load max. voltage	
	user programmable
Available power	
	allows the linear control of the DIATHERMY power via system pedal
	bipolar microforceps, slim stat pencil eraser, intraocular diathermy pencils
Diathermy cable	two conductors, 26 gauges, 75 Ohm, 200V max, steam autoclavable; use only the original diathermy cable
Control	system pedal

PHACOEMULSIFIER		
Handpiece type	piezoelectric available with four or six crystals	
Frequency	approx. 40 kHz	
Tip stroke	0 - 100 µm	
Power control	panel or linear control of U/S power via system pedal	
U/S mode	linear or panel; continuous, pulsed, single burst, multiple burst, continuous burst	
Occlusion mode	Autolimit, HD pulse	
Timer U/S	0:00 - 9:59 min - equivalent phaco time display	
EQUIPMENT CLASSIFICATION ACCORDING TO IEC 60601-1		
Type of protection against electric shock	Class	
Degree of protection against electric shock:		
Diathermy	Type BF, floating at high and low frequencies	
U/S	Туре В	
Vitrectomy	Type BF	
Degree of protection against harmful water ingress (unit)	IPXO	
Degree of protection against harmful water ingress (pedal)	IPX8	
Degree of safety of application in the presence of a flammable anaesthetic mixture	notsuitable	



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W x D x H (with trolley): 57 x 74 x 152 cm

Weigh: 17 Kg (60 kg with trolley and pedal)